

Anthony Star
Assistant Manager
Community Energy Cooperative



- Paying for negawatts
 - Curtailment cooperatives
 - Underwriting the cost of high efficiency air conditioners and lighting (and getting rid of the old)
 - Require direct subsidies

- Price signals: Real-time pricing of electricity
 - Reduces demand, raises consciousness of energy.
 You pay for what you get

3

Benefits of Price Responsive Behavior

- Increases system reliability
- Reduces the costs of electricity to all consumers by reducing the use of expensive peak power
- Lowers market risk management costs for suppliers
- Environmental benefits from

- efficient use of resources
- Market power mitigation
- Incentives for technical innovation



The Energy-Smart **Pricing Plan**

- Three year pilot program of the Community Energy Cooperative and ComEd
- Wide range of income and housing types represented among 1,500 participants
- Provides hourly electricity price
- People are saving money

- People are changing energy use patterns
- People like it!



Energy-Smart Pricing **Plan Components**

- Interval recording meters
- High price alerts via phone, e-mail
- Energy management/price response tools
 - Information about usage
 - Instructions and tips on how to reduce usage during peak periods
 - Ongoing energy efficiency information

 Prices available through web and phone



Key Findings

- Participants respond to prices
 - Peak demand reduced by up to 20%
 - Statistically significant relationship between price of electricity and consumption
- Participants saved money
 - Approximately 12% in 2003 and 2004

 Participants of all incomes benefited

One Member's Response:

Changing Thermostat Set

Point In Response

To Price Notification



- Energy-Smart Pricing Plan has created
 - Participant Savings
 - Peak Load Reductions
- But the Cooperative has

also found

- Investments in energy efficiency
- Changing understanding and attitudes about energy usage
- Participants
 Invested in
 Efficiency
- Participants
 Conserved
- Participants Didn't

Mind

- Learned Behavior
- 13 Other Changes
- Everyone Is Happy
- Environment A Driver
 (But A Quarter Didn't
 Need It For Motivation)
- ¹⁶ Knowledge Is Power

Knowledge Leads To Action

Example 19 Knowledge Isn't Difficult

Efficiency And Price Signals Can Work Together

- Short-term benefits. Price signals change peak behavior
- Long-term benefits. Price signals make consumers

more conscious of energy use and more willing to invest in efficiency measures

Illinois Utilities Should Look For Ways To

- Include and integrate both components for smaller customers
 - Optional market-based pricing option (fits into the current auction proposal)
 - Effective energy education
 - Targeted incentives for efficiency

For More Information

Anthony Star, Assistant
Manager
Community Energy
Cooperative
2125 W North Ave
Chicago, IL 60647
773/269-4017
astar@energycooperative.or
g
www.energycooperative.org